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September 8, 2021

Ms. Becky Jolly  
Iowa Department of Natural Resources  
Land Quality Bureau  
502 E. 9<sup>th</sup> Street  
Des Moines, Iowa 50319

Dear Ms. Jolly:

Re: Fluff Quarterly Sampling Results  
Alter Metal Recycling – Mason City, Iowa  
3rd Quarter 2021 – September 2021

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CJF Associates, LLC (CJF) is pleased to submit this report on behalf of Alter Trading Corporation, Mason City, Iowa (Alter). This report presents the quarterly fluff sampling results as identified above.

### **Summary**

- PCB concentration this quarter: 8.7 mg/kg;
- Ten-Sample Rolling PCB Average: 10.05 mg/kg;
- PCB TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

Based on the analytical results; the fluff may be landfilled in Iowa per IAC 567, Chapter 118.

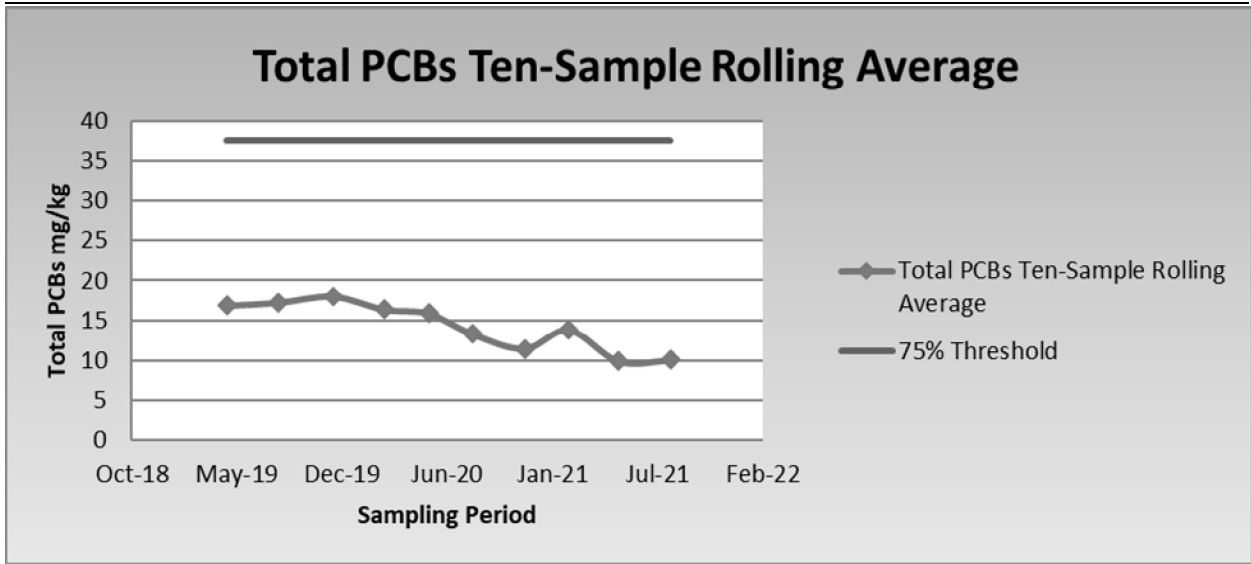
### **Details**

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from July 1, 2021 through July 13, 2021 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, TCLP Resource Conservation and Recovery Act (RCRA) metals, and Ignitability.

Total PCBs results for the sampling period totaled 8.7 mg/kg. Barium, cadmium and lead were the only RCRA metals identified above the laboratory reporting limits. Lead was identified at a concentration of 0.48 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 10.05 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



September 8, 2021



Third quarter analytical results are summarized as follows:

Sample ID	Analyte										Ignitability <sup>2</sup>
	Total PCBs <sup>1</sup>	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
MCSF-081621-001	8.7	ND	ND	0.72	0.17	ND	0.48	ND	ND	ND	>215

**Notes**

All TCLP results are reported in mg/L

ND = Not Detected Above Laboratory Detection Limits

(1) Results reported in mg/kg

NA = Not Analyzed

(2) Results reported in Degrees F

Laboratory analytical results and chain of custody forms are presented in Attachment A.

If you have any questions, please contact Frank W. Ring at (313)999-4071.

Sincerely,  
CJF Associates, LLC

Frank W. Ring, P.E.

Encl.

CC: Ryan Carpenter, Alter  
Bill Rowland, Landfill of Iowa North

**ATTACHMENT A**

**LABORATORY ANALYTICAL RESULTS**

## ANALYTICAL REPORT

Eurofins TestAmerica, Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Tel: (330)497-9396

Laboratory Job ID: 240-154623-1  
Client Project/Site: Mason City, 1218

**For:**

CJF Associates, LLC  
PO BOX 80815  
St. Claire Shores, Michigan 48080

Attn: Charles Ring



Authorized for release by:  
9/2/2021 2:32:53 PM

Denise Heckler, Project Manager II  
(330)966-9477  
[Denise.Heckler@Eurofinset.com](mailto:Denise.Heckler@Eurofinset.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Method Summary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CF
PCB	Total PCB Calculation	TAL SOP	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
D92	Flashpoint	ASTM	TAL CF
Moisture	Percent Moisture	EPA	TAL CF
1311	TCLP Extraction	SW846	TAL CF
3010A	Preparation, Total Metals	SW846	TAL CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CF
3550B	Ultrasonic Extraction	SW846	TAL CF
7470A	Preparation, Mercury	SW846	TAL CF

#### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

# Sample Summary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-154623-1	MCSF-081621-001	Solid	08/16/21 13:00	08/17/21 10:40

1

2

3

4

5

6

7

8

9

10

11

12

13

14



# Detection Summary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

**Client Sample ID: MCSF-081621-001**

**Lab Sample ID: 240-154623-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	8.7		0.97	0.11	mg/Kg	20	✱	8082A	Total/NA
Total PCBs	8.7		0.97	0.26	mg/Kg	1		PCB	Total/NA
Barium	0.72	J	1.0	0.22	mg/L	2		6010C	TCLP
Cadmium	0.17		0.040	0.0088	mg/L	2		6010C	TCLP
Lead	0.48		0.20	0.064	mg/L	2		6010C	TCLP
Flashpoint	>215		40.0	40.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

# Client Sample Results

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

**Client Sample ID: MCSF-081621-001**

**Lab Sample ID: 240-154623-1**

Date Collected: 08/16/21 13:00

Matrix: Solid

Date Received: 08/17/21 10:40

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:41	1
PCB-1221	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:41	1
PCB-1232	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:41	1
PCB-1242	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:41	1
PCB-1248	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:41	1
PCB-1254	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:41	1
PCB-1260	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:41	1
PCB-1268	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 08:41	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 08:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl (Surr)	71		10 - 119				08/27/21 07:55	08/31/21 08:41	1
Tetrachloro-m-xylene	78		14 - 110				08/27/21 07:55	08/31/21 08:41	1

## Method: PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total PCBs</b>	<b>8.7</b>		0.97	0.26	mg/Kg			08/27/21 12:33	1

## Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.10	mg/L		08/25/21 09:00	08/27/21 14:04	2
<b>Barium</b>	<b>0.72</b>	<b>J</b>	1.0	0.22	mg/L		08/25/21 09:00	08/27/21 14:04	2
<b>Cadmium</b>	<b>0.17</b>		0.040	0.0088	mg/L		08/25/21 09:00	08/27/21 14:04	2
Chromium	ND		0.040	0.017	mg/L		08/25/21 09:00	08/27/21 14:04	2
<b>Lead</b>	<b>0.48</b>		0.20	0.064	mg/L		08/25/21 09:00	08/27/21 14:04	2
Selenium	ND		0.20	0.13	mg/L		08/25/21 09:00	08/27/21 14:04	2
Silver	ND		0.040	0.017	mg/L		08/25/21 09:00	08/27/21 14:04	2

## Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		08/24/21 11:54	08/25/21 17:07	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Flashpoint</b>	<b>&gt;215</b>		40.0	40.0	Degrees F			08/20/21 11:11	1
<b>Percent Moisture</b>	<b>19.1</b>		0.1	0.1	%			08/18/21 14:28	1
<b>Percent Solids</b>	<b>80.9</b>		0.1	0.1	%			08/18/21 14:28	1

# Client Sample Results

Client: CJF Associates, LLC  
 Project/Site: Mason City, 1218

Job ID: 240-154623-1

**Client Sample ID: MCSF-081621-001**

**Lab Sample ID: 240-154623-1**

Date Collected: 08/16/21 13:00

Matrix: Solid

Date Received: 08/17/21 10:40

Percent Solids: 80.9

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.97	0.025	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
PCB-1221	ND		0.97	0.26	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
PCB-1232	ND		0.97	0.097	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
<b>PCB-1242</b>	<b>8.7</b>		0.97	0.11	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
PCB-1248	ND		0.97	0.066	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
PCB-1254	ND		0.97	0.062	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
PCB-1260	ND		0.97	0.033	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
PCB-1268	ND		0.97	0.014	mg/Kg	✱	08/19/21 12:56	09/01/21 10:03	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>DCB Decachlorobiphenyl (Surr)</i>	4498	S1+	10 - 136				08/19/21 12:56	09/01/21 10:03	20
<i>Tetrachloro-m-xylene</i>	376	S1+	21 - 110				08/19/21 12:56	09/01/21 10:03	20

# Surrogate Summary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (21-110)
240-154623-1	MCSF-081621-001	4498 S1+	376 S1+

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (10-136)	TCX2 (21-110)
LCS 310-325868/2-A	Lab Control Sample	104	68
LCSD 310-325868/3-A	Lab Control Sample Dup	95	59
MB 310-325868/1-A	Method Blank	114	77

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-119)	TCX1 (14-110)
LCS 310-326691/2-A	Lab Control Sample	101	75

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: TCLP

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-119)	TCX1 (14-110)
240-154623-1	MCSF-081621-001	71	78
LB 310-326182/1-C	Method Blank	85	65

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 310-325868/1-A**  
**Matrix: Solid**  
**Analysis Batch: 326446**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 325868**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.00065	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1221	ND		0.025	0.0067	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1232	ND		0.025	0.0025	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1242	ND		0.025	0.0027	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1248	ND		0.025	0.0017	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1254	ND		0.025	0.0016	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1260	0.00709	J	0.025	0.00084	mg/Kg		08/19/21 12:56	08/25/21 17:14	1
PCB-1268	ND		0.025	0.00035	mg/Kg		08/19/21 12:56	08/25/21 17:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	114		10 - 136	08/19/21 12:56	08/25/21 17:14	1
Tetrachloro-m-xylene	77		21 - 110	08/19/21 12:56	08/25/21 17:14	1

**Lab Sample ID: LCS 310-325868/2-A**  
**Matrix: Solid**  
**Analysis Batch: 326446**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 325868**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	0.197	0.159		mg/Kg		81	33 - 113
PCB-1260	0.197	0.157		mg/Kg		80	30 - 111

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	104		10 - 136
Tetrachloro-m-xylene	68		21 - 110

**Lab Sample ID: LCSD 310-325868/3-A**  
**Matrix: Solid**  
**Analysis Batch: 326446**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 325868**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
PCB-1016	0.198	0.159		mg/Kg		81	33 - 113	8	34
PCB-1260	0.198	0.167		mg/Kg		84	30 - 111	12	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	95		10 - 136
Tetrachloro-m-xylene	59		21 - 110

**Lab Sample ID: LCS 310-326691/2-A**  
**Matrix: Solid**  
**Analysis Batch: 327011**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 326691**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	6.25	5.89		ug/L		94	21 - 119
PCB-1260	6.25	6.32		ug/L		101	18 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	101		10 - 119

Eurofins TestAmerica, Canton

# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 310-326691/2-A**  
**Matrix: Solid**  
**Analysis Batch: 327011**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 326691**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	75		14 - 110

**Lab Sample ID: LB 310-326182/1-C**  
**Matrix: Solid**  
**Analysis Batch: 327011**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 326691**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1221	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1232	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1242	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1248	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1254	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1260	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
PCB-1268	ND		4.0	1.1	ug/L		08/27/21 07:55	08/31/21 07:48	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		08/27/21 07:55	08/31/21 07:48	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	85		10 - 119	08/27/21 07:55	08/31/21 07:48	1
Tetrachloro-m-xylene	65		14 - 110	08/27/21 07:55	08/31/21 07:48	1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: LB 310-326180/1-C**  
**Matrix: Solid**  
**Analysis Batch: 326798**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 326296**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.10	0.032	mg/L		08/25/21 09:00	08/27/21 13:54	1
Selenium	ND		0.10	0.063	mg/L		08/25/21 09:00	08/27/21 13:54	1

**Lab Sample ID: LCS 310-326180/2-C**  
**Matrix: Solid**  
**Analysis Batch: 326798**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 326296**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Lead	4.00	3.69		mg/L		92	80 - 120
Selenium	8.00	9.00		mg/L		113	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: LB 310-326180/1-B**  
**Matrix: Solid**  
**Analysis Batch: 326484**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 326276**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.0020	0.0015	mg/L		08/24/21 11:54	08/25/21 16:54	1

Eurofins TestAmerica, Canton

# QC Sample Results

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 310-326180/2-B  
Matrix: Solid  
Analysis Batch: 326484

Client Sample ID: Lab Control Sample  
Prep Type: TCLP  
Prep Batch: 326276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0167	0.0191		mg/L		115	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Association Summary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## GC Semi VOA

### Prep Batch: 325868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	Total/NA	Solid	3550B	
MB 310-325868/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-325868/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-325868/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

### Leach Batch: 326182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	1311	
LB 310-326182/1-C	Method Blank	TCLP	Solid	1311	

### Analysis Batch: 326446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-325868/1-A	Method Blank	Total/NA	Solid	8082A	325868
LCS 310-325868/2-A	Lab Control Sample	Total/NA	Solid	8082A	325868
LCSD 310-325868/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	325868

### Prep Batch: 326691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	3510C	326182
LB 310-326182/1-C	Method Blank	TCLP	Solid	3510C	326182
LCS 310-326691/2-A	Lab Control Sample	Total/NA	Solid	3510C	

### Analysis Batch: 326768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	Total/NA	Solid	PCB	

### Analysis Batch: 327011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	8082A	326691
LB 310-326182/1-C	Method Blank	TCLP	Solid	8082A	326691
LCS 310-326691/2-A	Lab Control Sample	Total/NA	Solid	8082A	326691

### Analysis Batch: 327142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	Total/NA	Solid	8082A	325868

## Metals

### Leach Batch: 326180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	1311	
LB 310-326180/1-B	Method Blank	TCLP	Solid	1311	
LB 310-326180/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-326180/2-B	Lab Control Sample	TCLP	Solid	1311	
LCSD 310-326180/2-C	Lab Control Sample	TCLP	Solid	1311	

### Prep Batch: 326276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	7470A	326180
LB 310-326180/1-B	Method Blank	TCLP	Solid	7470A	326180
LCS 310-326180/2-B	Lab Control Sample	TCLP	Solid	7470A	326180

Eurofins TestAmerica, Canton



# QC Association Summary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## Metals

### Prep Batch: 326296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	3010A	326180
LB 310-326180/1-C	Method Blank	TCLP	Solid	3010A	326180
LCS 310-326180/2-C	Lab Control Sample	TCLP	Solid	3010A	326180

### Analysis Batch: 326484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	7470A	326276
LB 310-326180/1-B	Method Blank	TCLP	Solid	7470A	326276
LCS 310-326180/2-B	Lab Control Sample	TCLP	Solid	7470A	326276

### Analysis Batch: 326798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	TCLP	Solid	6010C	326296
LB 310-326180/1-C	Method Blank	TCLP	Solid	6010C	326296
LCS 310-326180/2-C	Lab Control Sample	TCLP	Solid	6010C	326296

## General Chemistry

### Analysis Batch: 325744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	Total/NA	Solid	Moisture	

### Analysis Batch: 325975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-154623-1	MCSF-081621-001	Total/NA	Solid	D92	

# Lab Chronicle

Client: CJF Associates, LLC  
 Project/Site: Mason City, 1218

Job ID: 240-154623-1

**Client Sample ID: MCSF-081621-001**

**Lab Sample ID: 240-154623-1**

**Date Collected: 08/16/21 13:00**

**Matrix: Solid**

**Date Received: 08/17/21 10:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			326182	08/23/21 14:05	DEM1	TAL CF
TCLP	Prep	3510C			326691	08/27/21 07:55	JCM	TAL CF
TCLP	Analysis	8082A		1	327011	08/31/21 08:41	BBW	TAL CF
Total/NA	Analysis	PCB		1	326768	08/27/21 12:33	DLK	TAL CF
TCLP	Leach	1311			326180	08/23/21 14:05	DEM1	TAL CF
TCLP	Prep	3010A			326296	08/25/21 09:00	ACM2	TAL CF
TCLP	Analysis	6010C		2	326798	08/27/21 14:04	CTB	TAL CF
TCLP	Leach	1311			326180	08/23/21 14:05	DEM1	TAL CF
TCLP	Prep	7470A			326276	08/24/21 11:54	EAM	TAL CF
TCLP	Analysis	7470A		1	326484	08/25/21 17:07	EAM	TAL CF
Total/NA	Analysis	D92		1	325975	08/20/21 11:11	BER	TAL CF
Total/NA	Analysis	Moisture		1	325744	08/18/21 14:28	ARG	TAL CF

**Client Sample ID: MCSF-081621-001**

**Lab Sample ID: 240-154623-1**

**Date Collected: 08/16/21 13:00**

**Matrix: Solid**

**Date Received: 08/17/21 10:40**

**Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			325868	08/19/21 12:56	KMH	TAL CF
Total/NA	Analysis	8082A		20	327142	09/01/21 10:03	BBW	TAL CF

**Laboratory References:**

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

# Accreditation/Certification Summary

Client: CJF Associates, LLC  
Project/Site: Mason City, 1218

Job ID: 240-154623-1

## Laboratory: Eurofins TestAmerica, Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3510C	Solid	Polychlorinated biphenyls, Total
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
PCB		Solid	Total PCBs



**Eurofins TestAmerica Canton Sample Receipt Form/Narrative** Login #: 154623  
**Canton Facility**

Client CJF Site Name \_\_\_\_\_ Cooler unpacked by: Mat  
Cooler Received on 8-17-21 Opened on 8-17-21  
FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

**Receipt After-hours: Drop-off Date/Time** \_\_\_\_\_ **Storage Location** \_\_\_\_\_

TestAmerica Cooler # JA Foam Box \_\_\_\_\_ Client Cooler \_\_\_\_\_ Box \_\_\_\_\_ Other \_\_\_\_\_  
Packing material used: Bubble Wrap Foam Plastic Bag \_\_\_\_\_ None \_\_\_\_\_ Other \_\_\_\_\_  
COOLANT: Wet Ice Blue Ice \_\_\_\_\_ Dry Ice \_\_\_\_\_ Water \_\_\_\_\_ None \_\_\_\_\_

1. Cooler temperature upon receipt  See Multiple Cooler Form  
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C  
IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ ) Yes No  
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA  
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No  
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No  
4. Did custody papers accompany the sample(s)? Yes No  
5. Were the custody papers relinquished & signed in the appropriate place? Yes No  
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No  
7. Did all bottles arrive in good condition (Unbroken)? Yes No  
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? ms Yes No  
9. For each sample, does the COC specify preservatives (Y/N) # of containers (Y/N), and sample type of grab/comp(Y/N)? Yes No  
10. Were correct bottle(s) used for the test(s) indicated? Yes No  
11. Sufficient quantity received to perform indicated analyses? Yes No  
12. Are these work share samples and all listed on the COC? Yes No  
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842  
14. Were VOAs on the COC? Yes No  
15. Were air bubbles >6 mm in any VOA vials? ● ← Larger than this. Yes No NA  
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ Yes No  
17. Was a LL Hg or Me Hg trip blank present? \_\_\_\_\_ Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
Concerning \_\_\_\_\_

Tests that are not checked for pH by Receiving:  
VOAs  
Oil and Grease  
TOC

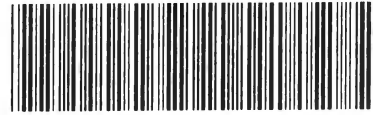
**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**  additional next page Samples processed by: \_\_\_\_\_  
No date/times on containers

**19. SAMPLE CONDITION**  
Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
Sample(s) \_\_\_\_\_ were received in a broken container.  
Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

**20. SAMPLE PRESERVATION**  
Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_  
VOA Sample Preservation - Date/Time VOAs Frozen: \_\_\_\_\_



Environment Testing  
TestAmerica

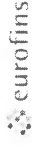


240-154623 Chain of Custody

### Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>ETA Canton</u>			
City/State:	CITY <u>North Canton</u>	STATE <u>OH</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>8/18/21</u>	TIME <u>1030</u>	Received By: <u>LB</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input type="checkbox"/> NONE	
Thermometer ID:	<u>0</u>	Correction Factor (°C): <u>0</u>	
• Temp. Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>500 H2SO4 plastic</u>	CONTAINER 2	
Uncorrected Temp (°C):	<u>2.3</u>		
Corrected Temp (°C):	<u>2.3</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: Lab PM	Carrier Tracking No(s)	COC No:
Client Contact: Heckler, Denise D		Phone: E-Mail	State of Origin:	240-141375.1
Shipping/Receiving: Denise.Heckler@Eurofinset.com		Company: TestAmerica Laboratories, Inc	Page 1 of 1	
Address: 3019 Venture Way, Cedar Falls, IA, 50613		Project #: 24013819	Job #:	240-154623-1
Phone: 319-277-2401(Tel) 319-277-2425(Fax)		SSOW#:	<b>Preservation Codes:</b>	
Email:		A - HCL M - Hexane B - NaOH N - None O - AsNaO2 C - Zn Acetate D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 R - Na2SO3 F - MeOH G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA W - pH 4-5 K - EDTA L - EDA Z - other (Specify) Other:		
Due Date Requested: 8/30/2021		<b>Analysis Requested</b>		
TAT Requested (days):		Total Number of Containers 8082A/3550B_PCB_1YR PCBs 8082A/1311_TCLP PCB D92/Flashpoint 60100/1311T_M TCLP Metals 7470A/1311T_Hg Mercury TCLP Moisture/Percent Moisture Perform MS/MSD (Yes or No)		
PO #:		Field Filtered Sample (Yes or No)		
WO #:		Total PCBs/Total PCBs 8082A/1311_TCLP PCB 8082A/3550B_PCB_1YR PCBs D92/Flashpoint 60100/1311T_M TCLP Metals 7470A/1311T_Hg Mercury TCLP Moisture/Percent Moisture Perform MS/MSD (Yes or No)		
Project Name: Alter Metals, Iowa, 1053.1216.1217.1218		Special Instructions/Note:		
Site:		M-CSF-081621-001 (240-154623-1) M-CSF-081621-001 DUP (240-154623-2)		
Sample Identification - Client ID (Lab ID)		Sample Date 8/16/21 8/16/21		
Sample Time		Sample Type (C=Comp, G=grab) 13:00 Central 13:00 Central		
Matrix (Water, Solid, Overstabil, BT-Tissue, Air)		Preservation Code: Solid Solid		

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

**Possible Hazard Identification**

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: *Combs* Date/Time: 8-17-21 15:03 Company: EPA  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No  Δ  No  Δ  No  
 Cooler Temperature(s) °C and Other Remarks: 8-18-21 1030



## Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-154623-1

**Login Number: 154623**

**List Number: 2**

**Creator: Homolar, Dana J**

**List Source: Eurofins TestAmerica, Cedar Falls**

**List Creation: 08/18/21 11:42 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	